Title (en)

MET/FRET BASED METHOD OF TARGET NUCLEIC ACID DETECTION WHEREBY THE DONOR/ACCEPTOR MOIETIES ARE ON COMPLEMENTARY STRANDS

Title (de)

METHODE FÜR DEN NUKLEINSÄURENACHWEIS BASIEREND AUF MET/FRET WOBEI SICH DIE FLUOROPHOREN GRUPPEN AUF KOMPLEMENTÄREN STRÄNGEN BEFINDEN

Title (fr)

PROCEDE DE DETECTION D'UN ACIDE NUCLEIQUE CIBLE PAR UNE TECHNIQUE MET/FRET DANS LEQUEL LE DONNEUR ET L'ACCEPTEUR SONT SUR DES BRINS COMPLEMENTAIRES

Publication

EP 1509624 A2 20050302 (EN)

Application

EP 03756100 A 20030530

Priority

- IN 0300204 W 20030530
- IN 487MU2002 A 20020531

Abstract (en)

[origin: WO03102239A2] Disclosure of a method for the detection and quantitation of polynucleotide sequences in a sample of biological or non-biological material through target poly nucleotide sequence amplification by polymerase chain reaction using chemically labeled oligonucleotide amplification primers and formation of an entity between the amplified polynucleotide sequence and chemically labeled polynucleotide having a sequence complementary to the target polynucleotide sequence for determining the identity and/or presence and/or quantitation of the target poly nucleotide sequences. The chemical label covalently attached to the oligonucleotide amplification primer and polynucleotide or oligonucleotide comprise molecular energy transfer labels (donor and acceptor). It is again a very sensitive, rapid and reliable method with better sensitivity, specificity and reliability for the detection of polynucleotide sequence. It also greatly reduces the possibility of amplification product carry-over contamination and adaptable for many formats of nucleic acids amplifications and real time measurements.

IPC 1-7

C12Q 1/68

IPC 8 full level

G01N 21/78 (2006.01); **C12N 15/09** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP US)

C12Q 1/6818 (2013.01 - EP US); **C12Q 1/6851** (2013.01 - EP US); **C12Q 1/686** (2013.01 - EP US); Y02A 50/30 (2017.12 - US)

Citation (search report)

See references of WO 03102239A2

Citation (examination)

- WO 9940226 A2 19990812 - PERKIN ELMER CORP [US]
- WO 0159160 A1 20010816 - UNIV LELAND STANFORD JUNIOR [US]
- HUBER CHRISTIAN G ET AL: "Mutation detection by capillary denaturing high-performance liquid chromatography using monolithic columns", JOURNAL OF BIOCHEMICAL AND BIOPHYSICAL METHODS, AMSTERDAM, NL, vol. 47, no. 1-2, 30 January 2001 (2001-01-30), pages 5 - 19, XP009119443, ISSN: 0165-022X
- ENGLISH ROBERT S ET AL: "Isolation and characterization of a carboxysome shell gene from Thiobacillus neapolitanus", MOLECULAR MICROBIOLOGY, WILEY-BLACKWELL PUBLISHING LTD, GB, vol. 12, no. 4, 1 January 1994 (1994-01-01), pages 647 - 654, XP009119445, ISSN: 0950-382X
- HUBER CHRISTIAN G ET AL: "Mutation detection by capillary denaturing high-performance liquid chromatography using monolithic columns", 30 January 2001, JOURNAL OF BIOCHEMICAL AND BIOPHYSICAL METHODS, AMSTERDAM, NL, PAGE(S) 5 - 19, ISSN: 0165-022X, XP009119443
- ENGLISH ROBERT S ET AL: "Isolation and characterization of a carboxysome shell gene from Thiobacillus neapolitanus", 1 January 1994, MOLECULAR MICROBIOLOGY, WILEY-BLACKWELL PUBLISHING LTD, GB, PAGE(S) 647 - 654, ISSN: 0950-382X, XP009119445

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 03102239 A2 20031211; **WO 03102239 A3 20040527**; **WO 03102239 B1 20040715**; EP 1509624 A2 20050302; JP 2005528121 A 20050922; JP 4457001 B2 20100428; US 2007059690 A1 20070315

DOCDB simple family (application)

IN 0300204 W 20030530; EP 03756100 A 20030530; JP 2004510475 A 20030530; US 51636103 A 20030530